



PN01-543-1-6

Handheld Ultrasonic Thickness Gauge

Problem

INEEL's Idaho Nuclear Technology and Engineering Center remediation project needed to test the integrity of six buried gas cylinders before their removal and disposal.

Baseline Technology

Pressure tests to determine the structural integrity of the cylinders.

Innovative Technology

The Handheld Ultrasonic Thickness Gauge rapidly measures material thickness when contact is made with an object.

Comparison

This gauge non-destructively measures cylinder wall thickness in the field, and eliminates a complicated and risky pressure test.

Benefits

This gauge enhances worker safety during removal of corroded cylinders and results in an estimated cost avoidance of \$21,000 by eliminating pressure tests.

ENVIRONMENTAL RESTORATION PROGRAM

Project: ID-ER-103
Idaho Nuclear Technology and Engineering Center Remediation